

CONTROL METHOD FOR STORAGE DEVICE ARRAY GROUP

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Inventor(s): UCHIDA MITSUJIROU
Applicant(s): NEC CORP
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Abstract

PROBLEM TO BE SOLVED: To derive an availability that an array disk originally has at its maximum by increasing the resolution of discrimination between a route fault and a spindle fault.
SOLUTION: A computer system which includes a central processor 10, an array controller 14, and ≥ 1 array groups 40 and 50 and connects the central processor 10 and array groups 40 and 50 together through storage directors 20 and 21 is equipped with a common memory between the storage directors 20 and 21. According to an I/O process result, a degenerative candidate spindle number, an abnormal end route number, and a normal end route number are stored and the operation results of the array groups 40 and 50 are classified by I/Os into a normal end, a suspicious spindle operation defect, and a suspicious non-spindle-operation defect, and then an array degenerating process or route blocking and alternative route retrial are recommended according to the classification results and the storage contents of the common memory before the operation of the I/O.

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